

Title (en)
TURBOMACHINE WITH AXIAL COMPRESSION OR EXPANSION

Title (de)
TURBOMASCHINE MIT AXIALER VERDICHTUNG ODER EXPANSION

Title (fr)
TURBOMACHINE À COMPRESSION OU EXPANSION AXIALE

Publication
EP 2496794 B1 20170322 (DE)

Application
EP 10771762 A 20101102

Priority
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Abstract (en)
[origin: WO2011054812A2] The turbomachine has a ring of radial blades (10) which are connected to an annular end wall (16). Situated on the end wall (16) upstream of each blade is a deflector wedge (20) with two divergent guide surfaces (21, 22). The deflector wedge generates pressure-side and suction-side vortices (30, 31) by means of which the vortices caused by the blade cascade are altered such that the transverse flow and backflow areas on the blade are reduced, and therefore the edge zone losses are decreased.

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